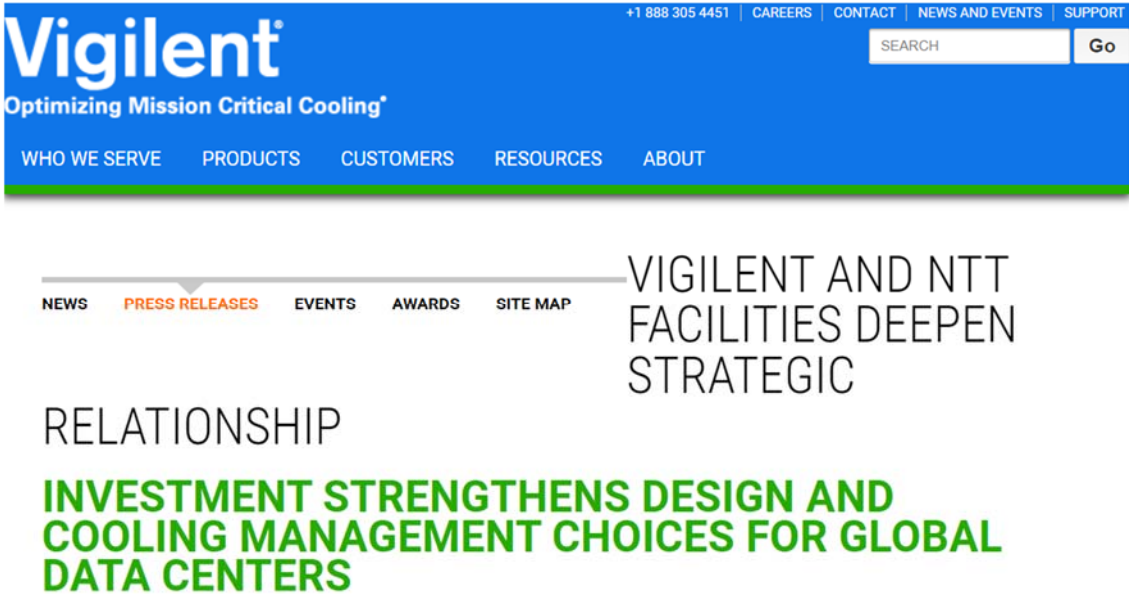

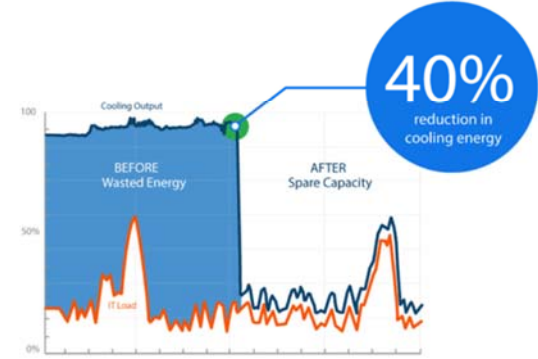



Exhibit 11


U.S. Patent No. 7,031,870 – Infringement Claim Chart


Claim 1	Exemplary Evidence of Infringement by NTT
<p>[1pre] A method for evaluating one or more components in a data center, the method comprising:</p>	<p>NTT's data centers use a method for evaluating one or more components in a data center.</p> <p>For example, NTT uses Vigilent's cooling optimization tools in its U.S. data centers to evaluate one or more components in a data center. Vigilent uses a method for evaluating one or more components in a data center.</p>  <p>https://www.vigilent.com/vigilent-and-ntt-facilities-deepen-strategic-relationship/</p>


Claim 1	Exemplary Evidence of Infringement by NTT
	<div data-bbox="793 302 1293 427"></div> <div data-bbox="793 464 1163 563"><h1>Vigilent®</h1></div> <div data-bbox="793 609 1182 639"><h2>PROJECT AT-A-GLANCE</h2></div> <div data-bbox="793 647 1293 1026"><ul style="list-style-type: none">▪ NTT Communications set out to improve the overall energy efficiency of its two largest US data centers▪ Technology from Vigilent was used to manage cooling systems more efficiently▪ NTT managed to eliminate or power down nearly half of its existing cooling units▪ Savings included an overall 20% reduction in cooling energy used across the two sites▪ Other results included PUE improvements and a reduction in carbon emissions</div> <div data-bbox="812 1122 1883 1211"><p>Representatives from NTT Facilities and Vigilent discuss the results of NTT Facilities deploying the Vigilent Dynamic Cooling Management System.</p></div> <div data-bbox="760 1284 1577 1320"><p>https://www.vigilent.com/case-study-ntt-facilities-and-vigilent/</p></div>



Claim 1	Exemplary Evidence of Infringement by NTT
	<p data-bbox="772 267 1633 357">VIGILENT CONTINUOUSLY MATCHES COOLING OUTPUT TO HEAT LOAD</p> <p data-bbox="772 373 1161 402">Optimized airflow eliminates hot spots.</p> <p data-bbox="772 418 1123 568">Vigilent continuously optimizes the airflow in your facility, delivering improved reliability and availability. The system automatically finds and eliminates hot spots, while its comprehensive reports and tools facilitate easier operations management.</p> <p data-bbox="772 600 1123 779">Our system delivers the right amount of cooling exactly where it's needed. This typically results in up to a 40% reduction in carbon emissions and your cooling energy bill. We achieve that with sophisticated AI-based technology that learns your environment and adapts to change.</p> <div data-bbox="1176 422 1711 779">  </div> <p data-bbox="762 812 1598 844">https://www.vigilent.com/who-we-serve/by-facility/data-centers/</p> <p data-bbox="762 868 1822 974">NTT also uses Vertiv (Liebert) cooling units in the colocation data center. Liebert cooling units are controlled by Liebert's iCOM Intelligent Communication and Monitoring system.</p>

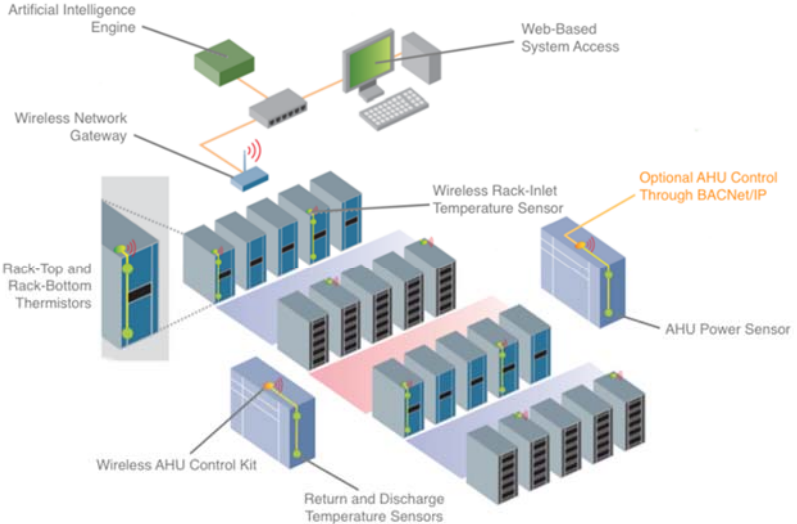
Claim 1	Exemplary Evidence of Infringement by NTT
	<div data-bbox="766 261 1801 878"><p>Welcome to NTT's Ashburn, VA Data Center Campus</p><p>26 carriers</p></div> <div data-bbox="766 901 1808 974"><p>https://services.global.ntt/en-us/services-and-products/global-data-centers/global-locations/americas/ashburn-va-1-data-center</p></div>

Claim 1	Exemplary Evidence of Infringement by NTT
	 <p data-bbox="766 885 1808 954">https://services.global.ntt/en-us/services-and-products/global-data-centers/global-locations/americas/hillsboro-hi1-data-center</p> <p data-bbox="779 982 1871 1133">Maintaining optimal temperatures in a data vault is essential to keeping critical infrastructure up and running. At our Chicago CH1 Data Center, we recirculate the heat produced in each of the 6MW vaults using our Vertiv Liebert fan walls. As warm air is exhausted from densely stacked servers into a contained hot aisle, the fan walls output cool 75°F air at a rate designed to maintain a constant pressure differential between the cold and hot aisles of our clients' racks. The hot air is channeled into a common return plenum and then back to the fan walls where the cycle begins again. The units themselves are carefully placed throughout the vault to ensure that the entire vault meets the CFD modeling and hot spots are minimized. Click here to learn more about our Chicago data center.</p> <p data-bbox="766 1170 1724 1203">https://services.global.ntt/en-us/insights/blog/chicago-construction-updates</p>

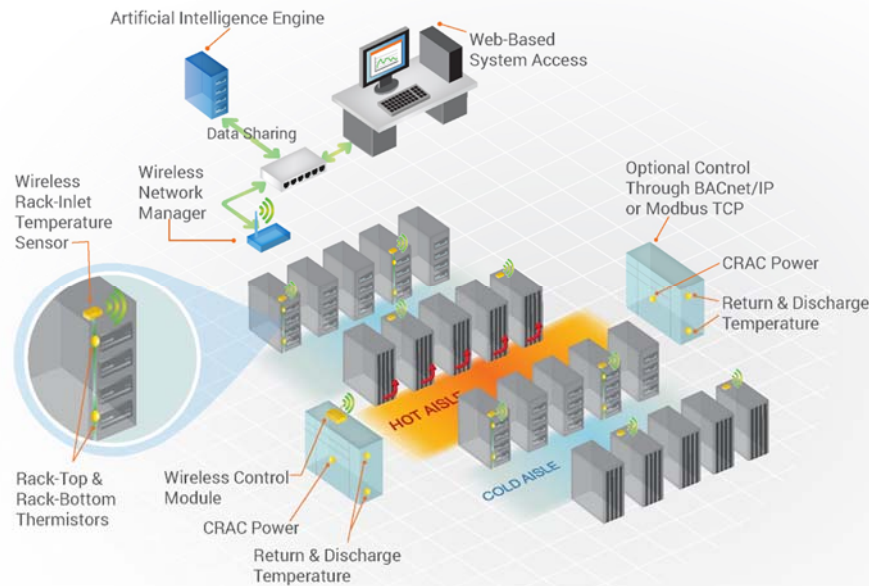
Claim 1	Exemplary Evidence of Infringement by NTT
	<p data-bbox="800 261 1545 362">With scalable pre-fabricated solutions like Vertiv™ SmartMod™ and the quickly deployed Power Module, Vertiv is standardizing modular systems so you can get your data center running, faster.</p> <p data-bbox="800 435 926 459">Vertiv.com</p>  <p data-bbox="766 919 1782 951">https://issuu.com/businessreviewusa/docs/bro_bc_usa_ragingwire_data_centers</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	<p data-bbox="802 263 1234 302">SmartMod incorporates:</p> <ul data-bbox="802 337 1491 626" style="list-style-type: none"><li data-bbox="802 337 1491 431">• Modular and scalable Vertiv™ Liebert® UPS power protection<li data-bbox="802 477 1491 626">• Close-coupled in-row Liebert® CRD thermal management units with intelligent iCOM™ Edge controls <p data-bbox="802 695 819 717">2</p> <p data-bbox="768 740 1789 808">https://www.vertiv.com/4ad535/globalassets/products/critical-power/integrated-solutions/vertiv-smartmod-na-brochure_0.pdf</p> <div data-bbox="768 889 1875 1214"><p>The image shows a dark gray rectangular area containing two logos and text. On the left is the Vertiv logo, which consists of a white stylized 'V' inside a circle, followed by the word 'VERTIV' in white capital letters with a small 'TM' trademark symbol. To the right of the Vertiv logo is the Liebert logo, which is the word 'Liebert' in white capital letters with a small '®' trademark symbol. Below the Liebert logo is the text 'iCOM™ Thermal System Controls' and 'Greater Data Center Protection, Efficiency & Insight' in white.</p></div> <p data-bbox="768 1237 1810 1305">https://www.vertiv.com/49d637/globalassets/shared/liebert-icom-thermal-system-controls-brochure.pdf (“iCOM Brochure”).</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	<p>At the cooling unit level, the Liebert iCOM unit control provides the highest protection available and optimal performance.</p> <ul style="list-style-type: none"> Monitors 380 unit and component points to eliminate single points of failure Self-healing features avoid passing unsafe operating thresholds Highly intuitive, full-color, touch screen simplifies operations to save time and reduce human error Multiple, automated unit protection routines, including lead/lag, cascade, rapid restart, refrigerant protection and valve calibration  <p>At the supervisory level, the Liebert iCOM-S system control offers a revolutionary way to harmonize and optimize thermal system performance to optimize capacity across the data center, gain quick access to actionable data, and automate system diagnostics and trending.</p> <ul style="list-style-type: none"> Advanced monitoring and at-a-glance reporting on performance metrics and trends for efficiency, capacity and adverse events Up to 50% system efficiency gains 30% lower deployment costs Teamwork modes that prevent conflict between units and allow them to adapt to changes in facility and IT demand to improve efficiency and availability and reduce system wear and tear – saving more than \$10,000 per unit per year in energy costs Simple and easy to deploy — auto-configuration to detect and configure up to 4,800 sensors, eliminating the need for custom integration to building management systems and cutting sensor deployment times in half <p>Liebert iCOM unit control and Liebert iCOM-S system control are available for new Vertiv™ data center cooling units or as retrofits.</p>  <p>iCOM Brochure at p. 3.</p>
[1a] detecting inlet and outlet temperatures of one or more heat dissipating devices;	<p>NTT detects inlet and outlet temperatures of one or more heat dissipating devices.</p> <p>For example, NTT uses Vigilent’s cooling optimization tools. Vigilent detects inlet and outlet temperatures on server racks, which are heat dissipating devices, using sensors.</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	 <p>Wireless Rack-Inlet Temperature Sensor – Wireless sensor that measures temperature at the top and bottom of the rack inlet.</p> <p>Rack-Top and Rack-Bottom thermistors – Attached via a cable sleeve, these are the physical monitoring points for each temperature sensor.</p> <p>Wireless sensors are typically deployed every third rack to measure the inlet air temperature every minute. The sensors have two thermistors, one to capture temperature at rack bottom, the other at rack top.</p> <p>https://www.vigilent.com/technology/system-architecture/</p> <p>CHECK TEMPERATURES With a few clicks, you can quickly dive down from a broad facility view into the real-time temperature data of one specific rack sensor.</p> <p>https://www.vigilent.com/who-we-serve/by-facility/data-centers/</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	<p>NTT also uses Liebert iCOM. Liebert iCOM detects inlet and outlet temperatures at server racks using wired, remote rack sensors.</p> <p>9.4 Wired Remote Sensors</p> <p>Wired, remote, rack sensors can function as control sensors and subsequently, provide input individually at the unit level or at the system level for temperature control and teamwork functions.</p> <p>Each wired remote rack sensor has two thermistors/probes. In Individual Sensor mode, the higher temperature reading or the average temperature reading of the two probes can be used. In Unit Sensors mode, some or all of the rack sensor's temperature readings are considered for higher (maximum) or average calculation. For example, setting three sensors as control and average for unit mode, averages the three highest temperature readings.</p> <p>https://www.vertiv.com/49b8b2/globalassets/shared/liebert-icom-user-manual_sl-31075.pdf (“iCOM Manual”) at p. 156.</p>
<p>[1b] detecting temperatures of air supplied by one or more computer room air conditioning (CRAC) units;</p>	<p>NTT detects temperatures of air supplied by one or more computer room air conditioning (CRAC) units.</p> <p>For example, NTT uses Vigilent's cooling optimization tools. Vigilent uses return and discharge temperature sensors that measure the return air and discharge air temperature for each cooling unit (CRAC) in a data center.</p> <p>Return and Discharge Temperature Sensors – Measures the return air and discharge air temperature for each cooling unit</p> <p>Discharge Air is the temperature of air being supplied to the facility by the cooling unit</p> <p>https://fccid.io/ANATEL/01612-15-08292/MANUAL/16006226-67DD-49FB-8873-2E15C3330211/PDF (“Vigilent Manual”) at p. 6, 28.</p>

Claim 1**Exemplary Evidence of Infringement by NTT**

<https://www.vigilent.com/technology/system-architecture/>

NTT also uses Liebert iCOM. Liebert iCOM detects temperatures of air supplied by one or more CRAC units.

13.4 Installing Supply Control Sensors

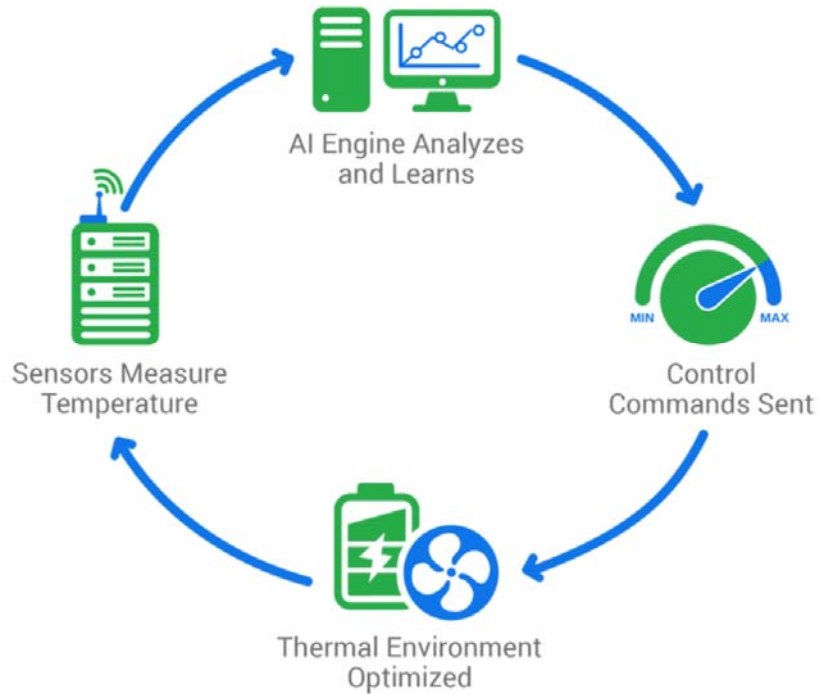
13.4.1 Installing the Supply Air Temperature Sensor

The supply temperature sensor is connected to P8, Pins 1 and 2 at the factory and requires no configuration.

1. Place the sensor in an area that is influenced only by the unit to which it is connected to provide an accurate reading: 5 ft. to 15 ft. (1.5 m to 4.5 m) from the cooling unit, **Figure 13.16** below.

iCOM Manual at p. 191.

Claim 1	Exemplary Evidence of Infringement by NTT
<p>[1c] calculating indices of air re-circulation for the one or more heat dissipating devices based upon the detected inlet temperatures, outlet temperatures and supplied air temperatures;</p>	<p>NTT calculates indices of air re-circulation for the one or more heat dissipating devices based upon the detected inlet temperatures, outlet temperatures and supplied air temperatures.</p> <p>For example, NTT uses Vigilent's cooling optimization tools. Vigilent calculates indices of air recirculation for racks using an AI engine based on detected inlet, outlet, and supplied air temperatures, for example by calculating cooling rates.</p> <p>Using wireless temperature sensors, the system collects granular information about the thermal environment of your data center. Temperature sensors are placed every three to four racks measuring temperature at the top and bottom of the rack. Thermal data is communicated via a wireless mesh network back to the control software.</p> <p>The AI control software uses the real-time thermal data to learn and build an airflow model of the environment. The model is used to determine the optimal cooling output to ensure that the thermal environment is maintained with a minimal amount of energy.</p> <p>The software then makes active control decisions for each cooling unit. The Data Center Control section provides detail on the different control capabilities of the system. The real-time temperature monitoring provides thermal feedback as the software begins to control the environment. This constant monitoring and control response occurs automatically and dynamically to optimize your thermal environment.</p> <p>Vigilent Manual at p. 102-103.</p> <p>Wireless Rack-Inlet Temperature Sensor – Wireless sensor that measures temperature at the top and bottom of the rack inlet.</p> <p>Rack-Top and Rack-Bottom thermistors – Attached via a cable sleeve, these are the physical monitoring points for each temperature sensor.</p> <p>Return and Discharge Temperature Sensors – Measures the return air and discharge air temperature for each cooling unit</p> <p>Vigilent Manual at 6, 28.</p>

Claim 1**Exemplary Evidence of Infringement by NTT**

<https://www.vigilent.com/products-and-services/dynamic-control/>

The **Equipment** tab is where the user can manually override units in the facility.

		Dashboard	Set Points	Maps	Equipment	Trends	Live	Reports	Advisories		
Assets	Equipment	State	Cooling	RAT	DAT	ΔT	Power	On/Off	Origin	Override	
	CRU-02	Off	0.0%	84.7°F	85.0°F	-0.2°F Δ	0.1 kW	OFF	CONTROL		
	CRU-03	Normal	55.1%	84.9°F	75.5°F	9.4°F Δ	-1.0 kW	ON	CONTROL		
	CRU-04	Off	0.0%	84.8°F	84.8°F	-0.1°F Δ	0.1 kW	OFF	CONTROL		
	CRU-05	Off	0.0%	85.0°F	84.3°F	0.8°F Δ	6.1 kW	OFF	CONTROL		
	CRU-06	Normal	55.5%	84.9°F	74.5°F	10.4°F Δ	5.6 kW	ON	CONTROL		
	CRU-07	Off	0.0%	84.7°F	84.8°F	-0.1°F Δ	0.1 kW	OFF	CONTROL		
	CRU-08	Off	0.0%	84.9°F	85.2°F	-0.3°F Δ	0.1 kW	OFF	CONTROL		

Claim 1**Exemplary Evidence of Infringement by NTT**

The columns of this tab display:

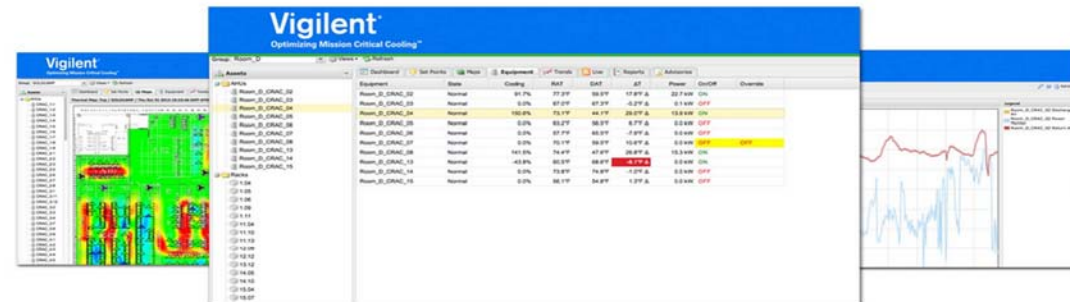
- The **Equipment**.
- The **State** of the equipment.
- The current sensible **Cooling** rate in % of Design Cooling Capacity. The current sensible cooling rate is also displayed on the VX Live tab, under the 'Point' column, as ComputedCoolRate, in units of kWt (kW thermal)
- The return air temperature (**RAT**) of that equipment.
- The discharge air temperature (**DAT**) of that equipment.
- The difference in temperature (ΔT) between the return and discharge air temperatures.

Cooling rate is defined as the sensible thermal energy per unit-time calculated per the following:

$$\text{Cooling Rate [tons]} = (\text{RAT} - \text{DAT}) * \text{Flow (cfm)} * 1.08 / 12,000$$

$$\text{Cooling Rate [kWc]} = (\text{RAT} - \text{DAT}) * \text{Flow (cfm)} * 1.08 / 12,000 * 3.516$$

Vigilent Manual at p. 26, 39.

**EVERYDAY TOOLS**

With our intuitive, at-a-glance system interface, checking the current status of your facility is always at your fingertips.

CHECK TEMPERATURES

With a few clicks, you can quickly dive down from a broad facility view into the real-time temperature data of one specific rack sensor.

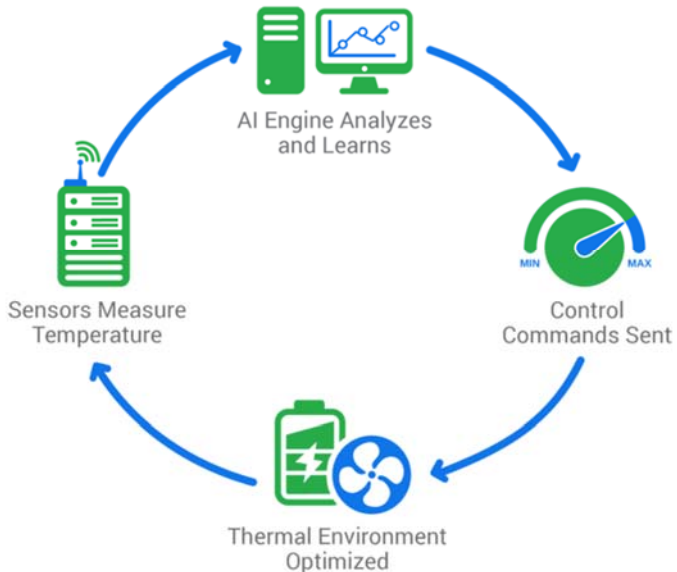
EASY TRENDING

Customize data to quickly surface the information you need.

<https://www.vigilent.com/who-we-serve/by-facility/data-centers/>

Claim 1	Exemplary Evidence of Infringement by NTT
	<p>NTT also uses Liebert iCOM. Liebert iCOM calculates indices of air recirculation for server racks based on detected inlet, outlet, and supplied air temperatures.</p> <p>13.2 Installing Wired Remote Sensors</p> <p>Up to 10 remote sensor modules, installed in the monitored racks and connected to the cooling unit, provide control and reference input to iCOM and building-management systems. Using remote, rack sensors combats cooling problems related to recirculation air, uneven rack loading, and air distribution.</p> <p>iCOM Manual at p. 180.</p> <p>13.1 Return Air Temperature/Humidity Sensor</p> <p>The return temperature/humidity sensor is located in the unit return air section and is supplied on all Liebert®systems with iCOM™ controls. The assembly connects to plug connection P67 on the iCOM internal control board on all CRV systems.</p> <p>iCOM Manual at p. 179.</p> <p>13.4 Installing Supply Control Sensors</p> <p>13.4.1 Installing the Supply Air Temperature Sensor</p> <p>The supply temperature sensor is connected to P8, Pins 1 and 2 at the factory and requires no configuration.</p> <ol style="list-style-type: none"> 1. Place the sensor in an area that is influenced only by the unit to which it is connected to provide an accurate reading: 5 ft. to 15 ft. (1.5 m to 4.5 m) from the cooling unit, Figure 13.16 below . <p>iCOM Manual at p. 191.</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	<p>Temperature Control Sensor</p> <p>Selects sensor that controls cooling. Values are:</p> <ul style="list-style-type: none"> • Supply Sensor: Temperature control is based on maintaining the temperature of the discharge air from the cooling unit. See Supply Sensors on page 158. • Remote Sensor: Temperature control is based on the temperature reading(s) from wired remote/rack sensor(s). See Wired Remote Sensors on page 156. • Return Sensor: Temperature control is based on maintaining the temperature of the room air. • Customer input setpoint (remote alarm device) <p>iCOM Manual at p. 25.</p>
<p>[1d] varying a flow field setting of air delivered to the one or more heat dissipating devices;</p>	<p>NTT varies a flow field setting of air delivered to the one or more heat dissipating devices.</p> <p>For example, NTT uses Vigilent’s cooling optimization tools. Vigilent dynamically controls the cooling units by turning them on and off or adjusting fan speeds to vary flow field settings of air delivered to the server racks.</p> <p>Control Module</p> <p>As directed by the AI Engine, the control module can turn cooling units on or off, or adjust fan speeds, to ensure the perfect facility temperature using the smallest amount of energy. As those changes are implemented, the temperature sensors gather new temperature data, and the cycle continues again.</p> <p>https://www.vigilent.com/technology/system-architecture/</p> <p>Commands are dispatched by the system to the cooling infrastructure, where they are automatically implemented by turning equipment on or off, or adjusting fan speeds. And this cycle continues over and over, in a closed-loop, with constant adjustments every minute of every day of every year from the moment it is deployed.</p> <p>https://www.vigilent.com/technology/artificial-intelligence/</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	<p data-bbox="772 261 1486 305">INTELLIGENT, CLOSED-LOOP CONTROL</p>  <p data-bbox="764 954 1612 987">https://www.vigilent.com/products-and-services/dynamic-control/</p> <p data-bbox="764 1013 1772 1084">NTT also uses Liebert iCOM. Liebert iCOM varies the flow field setting of air delivered to server racks by, for example, controlling fan speed.</p>

Claim 1	Exemplary Evidence of Infringement by NTT																					
	<p>3.1.12 Automatic Fan Speed Control</p> <p>Temperature sensors can control fan speed using one of three modes based on the type of sensor selected as the fan-control sensor: supply, return, or remote, see Table 3.2 below . Control is based on the selected sensor for both fan control and temperature control and their setpoints as follows:</p> <ul style="list-style-type: none">• Coupled: The fan control and temperature control sensor selection is the same. When coupled, fan speed is determined by the temperature setpoints.• Decoupled: The fan control and temperature control sensor selection is different. When decoupled, fan speed is determined by the fan setpoints. <p>Table 3.2 Fan Speed Controlling Sensor Options</p> <table><tr><th colspan="2" rowspan="2"></th><th colspan="3">Temperature Control Sensor Selected</th></tr><tr><th>Supply Sensor</th><th>Remote Sensor</th><th>Return Sensor</th></tr><tr><td rowspan="3">Fan Control Sensor Selected</td><td>Supply Sensor</td><td>Coupled</td><td>N/A</td><td>N/A</td></tr><tr><td>Remote Sensor</td><td>Decoupled (Recommended)</td><td>Coupled</td><td>N/A</td></tr><tr><td>Return Sensor</td><td>Decoupled</td><td>Decoupled</td><td>Coupled</td></tr></table> <p>iCOM Manual at p. 45.</p>			Temperature Control Sensor Selected			Supply Sensor	Remote Sensor	Return Sensor	Fan Control Sensor Selected	Supply Sensor	Coupled	N/A	N/A	Remote Sensor	Decoupled (Recommended)	Coupled	N/A	Return Sensor	Decoupled	Decoupled	Coupled
				Temperature Control Sensor Selected																		
		Supply Sensor	Remote Sensor	Return Sensor																		
Fan Control Sensor Selected	Supply Sensor	Coupled	N/A	N/A																		
	Remote Sensor	Decoupled (Recommended)	Coupled	N/A																		
	Return Sensor	Decoupled	Decoupled	Coupled																		
[1e] determining whether the indices of air re-circulation has changed in response to the varied flow field settings; and	<p>NTT determines whether the indices of air re-circulation has changed in response to the varied flow field settings.</p> <p>For example, NTT uses Vigilent’s cooling optimization tools. Vigilent’s AI engine determines whether indices of air-recirculation have changed in response to a change to the flow field settings. For instance, Vigilent determines changes in cooling percentages based on control module changes in fan speeds or turning on and off cooling units.</p>																					

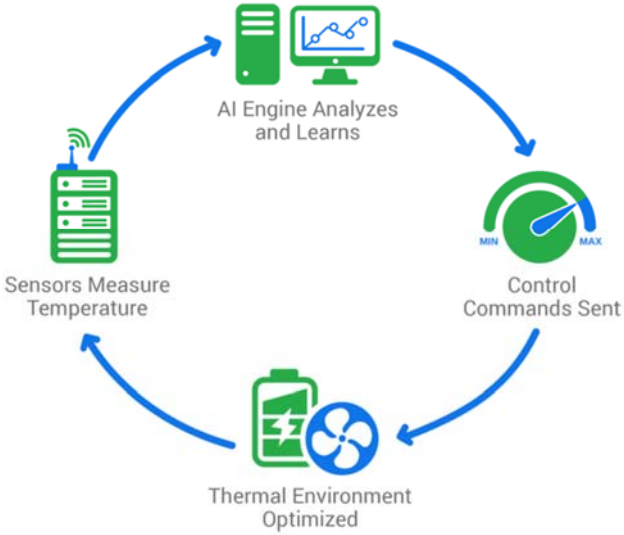
Claim 1**Exemplary Evidence of Infringement by NTT**

Equipment	State	Cooling	RAT	DAT	ΔT	Power	On/Off	Origin	Override
CRU-02	Off	0.0%	84.7°F	85.0°F	-0.2°F Δ	0.1 kW	OFF	CONTROL	
CRU-03	Normal	55.1%	84.9°F	75.5°F	9.4°F Δ	-1.0 kW	ON	CONTROL	
CRU-04	Off	0.0%	84.8°F	84.8°F	-0.1°F Δ	0.1 kW	OFF	CONTROL	
CRU-05	Off	0.0%	85.0°F	84.3°F	0.8°F Δ	6.1 kW	OFF	CONTROL	
CRU-06	Normal	55.5%	84.9°F	74.5°F	10.4°F Δ	5.6 kW	ON	CONTROL	
CRU-07	Off	0.0%	84.7°F	84.8°F	-0.1°F Δ	0.1 kW	OFF	CONTROL	
CRU-08	Off	0.0%	84.9°F	85.2°F	-0.3°F Δ	0.1 kW	OFF	CONTROL	

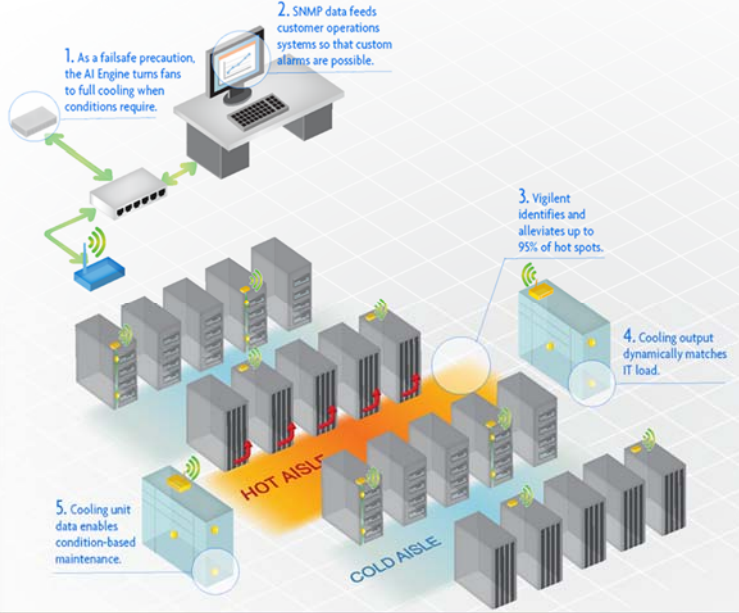
The columns of this tab display:

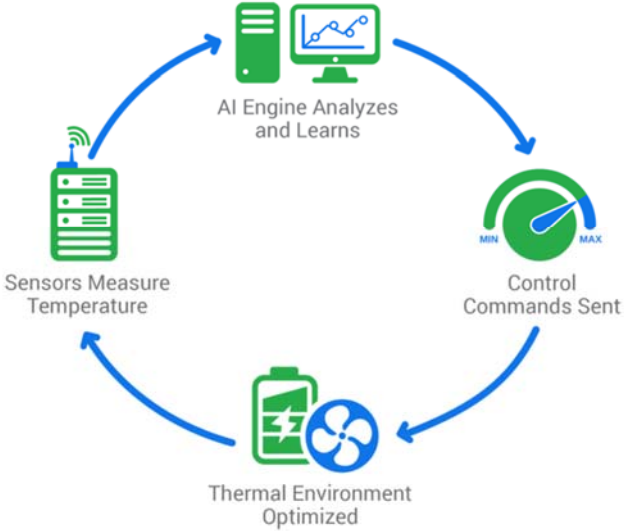
- The **Equipment**.
- The **State** of the equipment.
- The current sensible **Cooling** rate in % of Design Cooling Capacity. The current sensible cooling rate is displayed on the VX Live tab, under the 'Point' column, as ComputedCoolRate, in units of kWt (kW thermal)
- The return air temperature (**RAT**) of that equipment.
- The discharge air temperature (**DAT**) of that equipment.
- The difference in temperature (**ΔT**) between the return and discharge air temperatures.

Vigilent Manual at p. 26.

Claim 1	Exemplary Evidence of Infringement by NTT
	<p data-bbox="772 261 1434 305">INTELLIGENT, CLOSED-LOOP CONTROL</p>  <p data-bbox="764 906 1612 938">https://www.vigilent.com/products-and-services/dynamic-control/</p> <p data-bbox="764 964 1862 1109">NTT also uses Liebert iCOM. Liebert iCOM determines whether the indices of air re-circulation have changed in response to varied flow field settings, by for example changing the response to varying fan speeds based on the length of time temperature has deviated and the amount of deviation from the setpoint.</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	<p>Temperature Integration Time</p> <p>Adjusts amount of cooling/heating based on the length of time the temperature has deviated from the setpoint. The time selected is the amount of time it will take cooling capacity to reach 100%. For example, if three minutes is selected, cooling capacity will increase to 100% in three minutes.</p> <p>NOTE: Three to five minutes of integration time is adequate for most applications. See Considerations when Using PI Temperature Control on page 28 .</p> <p>NOTE: Only used when Temperature Control Type is PI.</p> <p>Temperature Proportional Band</p> <p>Adjusts the activation point of cooling/heating components based on deviation from setpoint by placing half of the selected value on each side of the temperature control setpoint. A smaller number causes faster reaction to temperature changes.</p> <p>NOTE: Setting this too low causes short cycling of compressors.</p> <p>iCOM Manual at p. 25.</p>
<p>[1f] evaluating the one or more components based upon changes in the indices of air re-circulation for the one or more heat dissipating devices at the various flow field settings.</p>	<p>NTT evaluates the one or more components based upon changes in the indices of air re-circulation for the one or more heat dissipating devices at the various flow field settings.</p> <p>For example, NTT uses Vigilent’s cooling optimization tools. Vigilent evaluates components based on changes in the indices of air re-circulation for the server racks at various flow field settings. For instance, Vigilent evaluates the components in the data center based on changes to temperature at the different fan speed settings in a dynamic optimization, closed loop control.</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	 <p>https://www.vigilent.com/key-benefits/uptime-protection/</p> <p>Dynamic Optimization</p> <p>The main goal of the Vigilent system is to match the cooling delivered to your facility with the heat generated by the current IT load. Every minute, our system automatically changes airflow from all your cooling resources to match real-time needs. This dynamic approach means</p> <p>https://www.vigilent.com/key-benefits/</p> <p>Control Module</p> <p>As directed by the AI Engine, the control module can turn cooling units on or off, or adjust fan speeds, to ensure the perfect facility temperature using the smallest amount of energy. As those changes are implemented, the temperature sensors gather new temperature data, and the cycle continues again.</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	<p data-bbox="766 261 1514 293">https://www.vigilent.com/technology/system-architecture/</p> <p data-bbox="772 375 1434 418">INTELLIGENT, CLOSED-LOOP CONTROL</p>  <p data-bbox="766 1024 1612 1057">https://www.vigilent.com/products-and-services/dynamic-control/</p> <p data-bbox="772 1089 1010 1117">Constantly adapting</p> <p data-bbox="772 1125 1507 1187">The AI Engine continuously adjusts cooling output as it adapts to changes in the environment, new equipment, and varying IT loads.</p> <p data-bbox="766 1214 1612 1247">https://www.vigilent.com/products-and-services/dynamic-control/</p> <p data-bbox="766 1271 1879 1414">NTT also uses Liebert iCOM. Liebert iCOM evaluates the components based on changed in the indices of air re-circulation for the server racks at various flow field settings. For example, Teamwork Mode evaluates changes in the air temperature of the inlet, outlet, or supply temperature of the heat dissipating devices and adjusts one or</p>

Claim 1	Exemplary Evidence of Infringement by NTT
	<p>more cooling units controls to provide the required cooling capacity, and Standby Mode evaluates these changes and activates/deactivates one or more cooling units to provide required cooling capacity.</p> <p>6 Teamwork, Standby and Rotation for Cooling Units</p> <p>U2U communication via private network and additional hardware (see U2U Networking on page 95) allows the following operating features for the cooling units:</p> <ul style="list-style-type: none">• Teamwork• Standby (Rotation)• Cascade <p>iCOM Manual at p. 99.</p>